



Cleaning product catalog



Americas

Nouryon




Make your world cleaner by making your cleaning products greener


From household water-based degreasing, to new laundry specialties, fabric softeners, and heavy duty industrial degreasing, our portfolio of specialized polymers and surfactants enhance performance and greatly reduce the environmental impact of your products.

Committed to safer cleaning ingredients – U.S. EPA Safer Choice Program



Nouryon believes that providing our formulating customers with a selection of safer, low toxicity and more sustainably sourced ingredients to use in developing cleaning formulations used in household and I&I applications is important for the industry and the end consumer. Nouryon has worked extensively with the United States Environmental Protection Agency (U.S. EPA) to review a variety of our products which meet their Safer Choice standards. These are listed on the CleanGredients database and are marked with a  in this catalog.

Formulations that use all CleanGredients can use the Safer Choice logo on their product packaging (following U.S. EPA review), allowing consumers to make an educated choice in selecting safer cleaning products for use in their homes or businesses.

For cleaning products intended for use outdoors, a higher ecotoxicity standard is required by the U.S. EPA. Qualifying products are then additionally classified as CleanGredients suitable for Direct Release (marked with a  in this catalog). Formulations containing these ingredients can be released directly to the environment without the need for further treatment at a municipal sewerage facility.





Learn more at www.epa.gov/saferchoice

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Nouryon's portfolio includes a range of specialty ingredients and formulation expertise for auto dishwashing (ADW), household cleaners, industrial & institutional cleaners, and laundry care products.

Alcohol ethoxylates – including narrow range

Product	Chemical description	Cloud point, °C	HLB	Active, %	Main properties	Main applications / functions
Berol 260 	Ethoxylated alcohol (4 EO) narrow range	55-59 ⁽²⁾	10.5 ⁽³⁾	100	Degreasing Emulsifier Wetting Low free alcohol content Low foaming, low odor	Food industry Vehicle cleaners Water-based alkaline cleaners
Berol 266 	Ethoxylated alcohol (5.5 EO) narrow range	24-29 ⁽¹⁾ and 54-59 ⁽⁴⁾	12.1 ⁽³⁾	100	Dispersing Emulsifier Wetting	All purpose cleaners Liquid detergents Vehicle cleaning Water-based alkaline cleaners also suitable in powder detergents
Berol 360	Natural (RSPO) ethoxylated alcohol (4 EO) narrow range	55-59 ⁽²⁾	10.5 ⁽³⁾	100	Degreasing Emulsification Wetting Low foaming, low odor	Food and beverage Vehicle cleaning Aqueous alkaline cleaners CIP
Berol 366	Natural (RSPO) ethoxylated alcohol (5.5 EO) narrow range	24-29 ⁽¹⁾ and 54-59 ⁽⁴⁾	12.1	100	Dispersing Emulsification Wetting	All purpose cleaners Liquid detergents Vehicle cleaning Aqueous alkaline cleaners
Berol 840	Ethoxylated alcohol (4 EO) narrow range	49-54 ⁽²⁾	11.5 ⁽³⁾	100	Defoaming Very low foaming	CIP Low foam cleaners Machine dishwashing Water-based alkaline cleaners
Ethylan 1005 	Ethoxylated alcohol (5 EO) narrow range	47-53 ⁽²⁾	11.6 ⁽³⁾	100	Emulsifier Excellent wetting Very low foaming	Hard surface cleaners Micro emulsions Vehicle cleaners
Ethylan 1008 	Ethoxylated alcohol (8 EO)	60-68 ⁽¹⁾	15 ⁽³⁾	100	Dispersing Emulsifier Moderate foaming Wetting	Hard surface cleaners Laundry additive Micro emulsions Vehicle cleaners
Ethylan TB345	EO/PO block copolymer	40 ⁽²⁾		100	Defoaming Antifoam Demulsification	Food and beverage CIP - alkaline Dairy Industrial process applications

Key

 Product has been reviewed by EPA's Safer Choice Program and qualifies for use in Safer Choice-certified products

⁽¹⁾ 1% in water



⁽²⁾ 5g product in 25ml butyl diglycol

⁽³⁾ Griffin HLB scale


⁽⁴⁾ 10% in water



Alkyl glucosides

Product	Chemical description	Active, %	Main properties	Main applications / functions
AG 6202	C ₈ alkylglucoside	65	Hydrotropic / solubilizing Low foaming Wetting	All purpose cleaners High alkaline cleaners Machine dishwashing Offshore cleaners Oven cleaners
AG 6206  	C ₆ alkylglucoside	75	Hydrotropic Low foaming Soluble in 50% NaOH	All purpose cleaners High alkaline cleaners Machine dishwashing Offshore cleaners Oven cleaners
AG 6210	C ₈₋₁₀ alkylglucoside	61	Dispersing High foaming Wetting	All purpose cleaners High alkaline cleaners Washing-up liquids

Ethoxylated amines & ethoxylated quaternary ammonium compounds


Description	Product	Appearance	Actives	Main applications / functions
Berol 561 	Ethoxylated quaternary ammonium compounds	Liquid	100	All purpose cleaners Hydrotropic
Ethomeen C/12	Ethoxylated amines (coco)	Liquid	100	Emulsifier Vegetable based 21CFR 178.3130, Antistatic and antifogging agents in food packaging Acid thickener
Ethomeen C/25A	Ethoxylated amines (coco)	Liquid	100	Vegetable based Acid cleaning / thickening Metal cleaners Emulsification
Ethomeen O/12LC	Ethoxylated amines (oleyl) Low color	Liquid	100	Metal cleaners Acid cleaners Solvent based cleaners Emulsifier
Ethomeen T/12	Ethoxylated amines (tallow)	Liquid	100	Metal cleaners Acid cleaners Solvent based cleaners Emulsifier 21CFR 178.3130, Antistatic and antifogging agents in food packaging
Ethomeen T/15	Ethoxylated amines (tallow)	Liquid	100	Metal cleaners - acid and alkali Corrosion inhibition Emulsification / thickening Acid and alkaline cleaning

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Anionics

Product	Chemical description	Appearance	Active, %	Main properties	Main applications / functions
Lankropol 4500	Sodium dioctyl Sulfosuccinate	Liquid	70	Dispersion Detergency Wetting	High alkaline cleaners Liquid detergents Textile processing 21CFR 175.105, Adhesives
 Witconate NAS-88	Sodium octane sulfonate	Liquid	37	Low foaming Hydrotroping, solubilizer Protein removal Corrosion protection	Liquid alkaline cleaners Metal cleaning Hard surface cleaners Carpet and upholstery care

Alkyl naphthalene sulfonates

Product	Solids, % ⁽¹⁾	Draves wetting ⁽²⁾	Ross Miles foam height ⁽³⁾	Surface tension ⁽⁴⁾	Main properties
Petro 22N	50/100	20-30	60	30	Hydrotrope, low foam, rinse aids, carpet cleaning, fabric cleaning
Petro AG Special	50/100	20-30	106	34	Hydrotrope, caustic & acid cleaners, degreasers, carpet cleaning, fabric cleaning
Petro BA	50/100	20-30	113	43	Hydrotrope, high foam, carpet cleaning, degreasers, alkaline cleaners
Petro LBA	50	>300	11	33	Hydrotrope, caustic & acid cleaners, degreasers, carpet cleaning, fabric cleaning
Petro LBAF	50	5-10	185	34	Hydrotrope, high foam, carpet cleaning, degreasers, alkaline cleaners

Amine oxides

Product	Chemical description	Active, %	Main properties	Main applications / functions
Aromox 14D-W970	Tetradecyldimethylamine oxide	25	High foaming Stable against oxidizing agents Thickening	Alkaline cleaners and in hypochlorite based cleaners
Aromox MCD-W	Cocodimethylamine oxide	31	High foaming Stable against oxidizing agents Thickening	Alkaline cleaners and in hypochlorite based cleaners
Aromox T/12 HFP	Tallow amine 2 EO oxide, paste	50	High flash point Solubilizing Thickening	Acid cleaners Alkaline cleaners Neutral cleaners

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⁽¹⁾ Petro products are available as 50% active liquids in water, or 95+% actives in powder form.

⁽²⁾ DeNouy, Dynes/cm, 0.1% @ 25°C, (3) 0.25% @ 25°C, (4) 1.0% in water @ 25°C








Quaternary ammonium compounds

Product	Chemical description	Active, %	Main properties	Main applications / functions
Arquad 16-29	Hexadecyltrimethylammonium chloride	28-30	Thickening	Household cleaners (thickening of strong acids and hydrogen peroxide systems) 21CFR 175.105, Adhesives
Arquad 16-50	Hexadecyltrimethylammonium chloride	49-52	Thickening	Household cleaners (thickening of strong acids and hydrogen peroxide systems)
Arquad 2C-75	Dicocoalkyldimethylammonium chloride	74-77	Emulsifier	Oil emulsions Softening Water-repellent
Arquad 2HT-75	Di(hydrogenated tallow)dimethyl ammonium chloride, paste	74-76	Antistatic	Car rinsing agents Softening Water-repellent
Arquad 2HT-75PG	Di(hydrogenated tallow)dimethyl ammonium chloride, paste	70-72	Antistatic High flash point	Car rinsing agents Softening Water-repellent
Arquad HTL8-MS	Hydrogenated tallowalkyl (2-ethylhexyl)dimethyl ammonium methylsulfate	82-84	Antistatic	Softening Water-repellent Wash and soften 2-in-1 applications
Arquad T-50	Tallowtrimethylammonium chloride	48-52	Solubilizing	Acid cleaners Thickening


Amines, diamines & polyamines

Product	Chemical description	Active, %	Main properties	Main applications / functions
Armeen 2HT	Di (hydrogenated tallow) amine	100	Corrosion inhibition	Intermediate Neutralization agent
Armeen CD	Coco amine, distilled	100	Corrosion inhibition	Intermediate Neutralization agent
Armeen OL	Oleyl amine	100	Corrosion inhibition	Intermediate Neutralization agent
Duomeen CD	Cocopropylene diamine , distilled liquid / paste	100	Emulsifier Hydrophobization	I&I cleaners Intermediate
Duomeen OL	Oleylpropylene diamine Liquid / paste, low cloud point	100	Corrosion inhibition Dispersing Emulsifier Hydrophobization	Antifoaming agents Metal cleaners
Duomeen SV	Oleyl (vegetable oil) propylene diamine	100	Corrosion inhibition Dispersing Emulsifier Hydrophobization	Antifoaming agents Metal cleaners
Duomeen T	Tallowpropylene diamine liquid/paste	100	Corrosion inhibition Dispersing Emulsifier Hydrophobization	Antifoaming agents Metal cleaners
Triameen T	Tallowdipropylene triamine	100	Corrosion inhibition Dispersing Emulsifier Hydrophobization	Dispersants Intermediates
Triameen YT	Tallowdipropylene triamine	100	Corrosion inhibition Dispersing Emulsifier Hydrophobization	Dispersants Intermediates

High performance specialty blends



Product	Chemical description	Active, %	Main properties	Main applications / functions
Berol 226 	Nonionic / cationic blend	100	Degreasing Dispersing Emulsifier Medium foaming Wetting	Acidic and alkaline cleaners All purpose cleaners Vehicle cleaners Water-based degreasers
Berol 609 	Nonionic blend	90	Medium foamer Degreasing Dispersing Emulsifier Wetting	Acidic and alkaline cleaners CIP applications Pressure wash systems NPE replacer
Berol DGR 81 	Nonionic blend	95	Alkali stable Emulsifier Medium foaming Wetting	High alkaline cleaners Offshore cleaners Traffic film remover Vehicle cleaners Water-based cleaners
Berol DR-B1  	Nonionic blend	90	Degreaser Direct release Quick break emulsification Powerful cleaning	Exterior cleaning; deck, siding, driveway Marine and rig wash Engines and tool cleaning / maintenance
Berol LFG 61	Nonionic blend	95	Alkali stable Low foaming	CIP applications High alkaline cleaners Machine dishwashing

Specialty oxidizers & corrosion inhibitors

Product	Chemical description	Active, %	Main properties	Main applications / functions
Armohib CI-28	Amine blend	100	Acid pickling Acid corrosion Inhibitors for HCl or HCl/HF mixture	Corrosion inhibitor in metal cleaners
Armohib CI-31	Amine blend	100	Acid pickling Acid corrosion Inhibitors for sulfuric, sulfamic, citric, and phosphoric acids	Corrosion inhibitor in metal cleaners
Berol PBX (S. America Only)	Specialty oxidizing cleaner concentrate	100	Corrosion inhibition Cleaning Stain removal	Carpet and laundry cleaning Hard surface cleaning Degreasing
Peroxy-Blend PB33 	Specialty oxidizer	33	Corrosion inhibition Dispersing Stain removal	Hard surface cleaners Soft surface cleaners Metal cleaners Alkaline cleaners

Hybrid polymers

Our hybrid bio-polymer technology is designed for the detergents market. This chemistry is a marriage of selected polysaccharides and synthetic monomers, designed to prevent scale formation in detergent applications such as automatic dishwash or laundry detergent systems. These polymers are particularly effective at minimizing filming and spotting in zero phosphate automatic dishwash formulations, and function in the same way typical acrylate/maleate and sulfonated copolymers do in laundry detergent, but with enhanced biodegradation and improved raw material sustainability.



Product	Chemical description	Mw	Solids, %	pH (as is)	Main properties	Main applications / functions
Alcoguard H 5025 Dry	Hybrid polymer	Medium	>95%	6-8	Anti-redeposition	Laundry detergent (liquid/powder)
Alcoguard H 5240 	Hybrid polymer	Medium	44-46%	5-6	Anti-encrustation Anti-redeposition	Automatic dishwash (liquid/ powder) Laundry detergent (liquid/powder)
Alcoguard H 5941 	Hybrid polymer	Low	39-41%	5-6	Anti-redeposition	Laundry detergent (liquid/powder)

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Acrylic acid homopolymers & maleic copolymers

Product	Chemical description	Mw	Solids, %	pH	Main properties	Main applications / functions
Alcosperse 125	Polymethacrylate	9,500	30	8.5	Dispersant Scale inhibition Thermal stability Chlorine stable	F&B cleaner I&I warewash All purpose cleaner
Alcosperse 149	Polyacrylate	2,500	40	8.2	Anti-encrustation Anti-etching Chlorine stable Particulate soil dispersion Scale and hardness control	All purpose cleaner Bottle washing I&I ware washing
Alcosperse 408	Polyacrylate/maleate	3,000	43	5.5	Anti-encrustation Anti-redeposition Crystal modifier Electrolyte stability Water hardness control	All purpose cleaner Auto shampoo Bottle washing F&B cleaner
Alcosperse 459	Polyacrylate	5,000	48	7.0	Anti-redeposition Particulate soil dispersion Scale and hardness control	All purpose cleaner Laundry tablet / powder Water softener
Alcosperse 465	Polyacrylate	6,000	46	3.5	Anti-redeposition Chlorine stable Particulate soil dispersion Scale and hardness control	All purpose cleaner Laundry tablet / powder Water softener
Alcosperse 602N 	Polyacrylate	5,000	45	7.5	Anti-encrustation Anti-etching Anti-redeposition Chlorine stable Particulate soil dispersion Scale and hardness control	All purpose cleaner Bottle washing F&B cleaner I&I ware washing 21 CFR 176.180, Paper in contact with dry food
Alcosperse 602N Dry 	Polyacrylate powder	5,000	>92	7.5	Anti-encrustation Anti-redeposition Chlorine stable Particulate soil dispersion Scale and hardness control	All purpose cleaner Automatic dishwash tablet F&B cleaner I&I ware washing Water softener 21 CFR 176.180, Paper in contact with dry food


Sulfonated copolymers

Product	Chemical description	Mw	Solids, %	pH	Main properties	Main applications / functions
Alcoguard 4160	Sulfonated multipolymer Powder	3,800	40	4.5	Anti-filming Excellent hardness control Organic/inorganic soil dispersion Phosphate scale control Soap scum inhibition Very strong co-builder	Replaces NTA in comb. with GLDA Automatic dishwash liquid Laundry tablet / powder Phosphate free formulations Water softener
Alcosperse 240	Sulfonated multipolymer	10,000	44	4.3	Anti-filming Anti-redeposition Excellent electrolyte stability Organic/inorganic soil dispersion Phosphate scale control Soap scum inhibition	All purpose cleaner Automatic dishwash liquid Bathroom cleaners Liquid laundry Rinse aid

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Acrylic / styrene copolymers

Product	Chemical description	Mw	Solids, %	pH	Main properties	Main applications / functions
Alcosperse 726 	Acrylic / styrene copolymer	3,000	37	10.5	Aluminum corrosion protection Anti-redeposition Anti-spotting Hydrotropic effect Oily / particulate soil suspension Surface modification	Liquid laundry All purpose cleaner Automatic dishwash liquid Auto shampoo Hand dishwash Shower cleaner
Alcosperse 747	Acrylic / styrene copolymer	3,000	40	9.0	Aluminum corrosion protection Anti-redeposition Anti-spotting Hydrotropic effect Oily / particulate soil suspension Surface modification	Liquid laundry All purpose cleaner Automatic dishwash liquid Auto shampoo Hand dishwash Shower cleaner
Alcoguard 7100	Acrylic / styrene copolymer	n/a	38	7.0	Opacifier Anti-redeposition	Chlorine bleach Liquid laundry formulations

Emulsion polymers and polymeric thickeners

Product	Chemical description	Mw	Solids, %	pH	Viscosity, cP (25°C)	Main properties	Main applications / functions
Alcoguard 5800	Hydrophobically modified alkali swellable emulsion (HASE)	500,000	30	3.0	<250	High electrolyte stability Rheology modification of alkaline formulations	Alkaline formulations F&B cleaner High surfactant systems
Alcogum 296W	HMW polyacrylate aqueous solution	High	16	9.5	20,000-30,000	Thickening Emulsion stabilization	Alkaline cleaners Paper coatings FDA approved for food contact Paint and coating thickener
Alcogum 1370	HMW polymethacrylate aqueous solution	High	14.2	10	30,000-40,000	Thickener - bleach stable	Viscous hypochlorite bleach Thickened alkaline cleaners i.e. oven cleaners
Alcogum L 520	Hydrophobically modified acid swellable emulsion (HH+SE)	High	21	8.5	<250	Thickens acidic formulations	Acidic formulations Fabric softener Toilet cleaner

Sulfonated polystyrenes





















Product	Chemical description	Mw	Solids, %	pH	Main properties	Main applications / functions
Versa-TL 3	Sulfonated polystyrene / maleic anhydride powder	20,000	>90	7.0	Antistatic agent Rust / iron oxide remover Scale control Surface modification	Furniture polishes Glass cleaner Shower cleaner Toilet cleaner
Versa-TL 4	Sulfonated polystyrene / maleic anhydride	3,000	40	9.0	Antistatic agent Rust / iron oxide remover Scale control Surface modification	Furniture polishes Glass cleaner Shower cleaner Toilet cleaner
Versa-TL 501	Sulfonated polystyrene sodium salt	1,000,000	25	7.0	Antistatic agent	Glass cleaner Shower cleaner Film production
Versa-TL 502	Sulfonated polystyrene sodium salt	1,000,000	95	n/a	Antistatic agent	Glass cleaner Shower cleaner Film production

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About Nouryon

We are a global specialty chemicals leader. Markets worldwide rely on our essential chemistry in the manufacture of everyday products such as paper, plastics, building materials, food, pharmaceuticals, and personal care items. Building on our nearly 400-year history, the dedication of our 10,000 employees, and our shared commitment to business growth, strong financial performance, safety, sustainability, and innovation, we have established a world-class business and built strong partnerships with our customers. We operate in over 80 countries around the world and our portfolio of industry-leading brands includes Eka, Dissolvine, Trigonox, and Berol.

For more information visit surfacechemistry.nouryon.com

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